

<b>Notice of Allowability</b>	Application No. 10/697,390	Applicant(s) PASQUALE ET AL.
	Examiner Chester T. Barry	Art Unit 1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included  
 herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. THIS  
 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative  
 of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 10/30/03.
2.  The allowed claim(s) is/are 13-15.
3.  The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All b)  Some\* c)  None of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date \_\_\_\_\_.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- 1.  Notice of References Cited (PTO-892)
- 2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3.  Information Disclosure Statements (PTO-1448 or PTO/SB/08),  
Paper No./Mail Date 10/30/03
- 4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
- 5.  Notice of Informal Patent Application (PTO-152)
- 6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
- 7.  Examiner's Amendment/Comment
- 8.  Examiner's Statement of Reasons for Allowance
- 9.  Other \_\_\_\_\_

Chester T. Barry  
571-272-1152 direct  
Art Unit: 1724

RESTRICTION

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I.     Claims 13 - 15, drawn to a biocarrier, classified in class 502, subclass 7.
- II.    Claims 16 - 17, drawn to a waste treatment apparatus, classified in class 210, subclass 198.1+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention Group II has separate utility such as in a wastewater treatment process not involving bacteria. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Shekleton on 6/1/04 a provisional election was made without traverse to prosecute the invention of Group I, claims 13 - 15. Affirmation of this election must be made by applicant in replying to this Office action. Claims 16 - 17 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

**In the Claims**

Claims 17 – 18 were cancelled as directed to the invention that was not elected without traverse.

**In the Specification**

In the preliminary amendment to the specification, at the insertion added after the title, the phrase

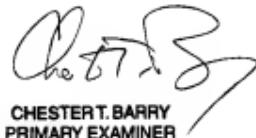
–, now U.S. Pat. No. 6,669,847 –  
was inserted after "July 20, 2001."

#### REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Chemical catalysts used in hydrogenation reactions comprising palladium supported on activated carbon are well known. The prior art of record does not appear to describe, however, bacteria supported on such catalysts. Claim 13 is not merely adapted to support bacteria, but rather must support bacteria. The bacteria are an element of the claimed structure.

Cutler (6303368) describes bacteria supported on activated carbon, and a supported transition metal, but not a combination of denitrifying bacteria and palladium on activated carbon.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."



A handwritten signature in black ink, appearing to read "Chestert T. Barry".

CHESTERT T. BARRY  
PRIMARY EXAMINER

571-272-1152